

CLAIMS

WHAT IS CLAIMED IS:

1. A fluorine-containing ethylene copolymer composition comprising:
the product of the reaction between an ethylene/glycidyl
5 (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
2. A fluorine-containing ethylene copolymer composition comprising:
the product of the reaction between an ethylene/glycidyl
(meth)acrylate copolymer and a perfluorinated carboxylic acid,
characterized in that the copolymer absorbs light in the region of
10 from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.
3. A blend comprising at least two thermoplastic materials wherein at
least one is a fluorine-containing ethylene copolymer composition
comprising the product of the reaction between an ethylene/glycidyl
15 (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
4. A blend comprising at least two thermoplastic materials wherein at
least one is a fluorine-containing ethylene copolymer composition
comprising the product of the reaction between an ethylene/glycidyl
(meth)acrylate copolymer and a fluorine-containing carboxylic acid,
20 characterized in that the copolymer absorbs light in the region of
from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.
5. An article having a surface with a total surface energy of less than
25 dyne/cm comprising: a fluorine-containing ethylene copolymer
composition comprising the product of the reaction between an
ethylene/glycidyl (meth)acrylate copolymer and a fluorine-
containing carboxylic acid.
6. An article having a surface with a total surface energy of less than
25 dyne/cm comprising: a fluorine-containing ethylene copolymer
composition comprising the product of the reaction between an
30 ethylene/glycidyl (meth)acrylate copolymer and a fluorine-
containing carboxylic acid, characterized in that the copolymer
absorbs light in the region of from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.
- 35 7. A stain-resistant fiber comprising a fluorine-containing ethylene
copolymer composition comprising the product of the reaction

between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.

8. A stain-resistant fiber comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.
9. An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
10. An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.
11. A mold release additive comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
12. A mold release additive comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm^{-1} to about 1800 cm^{-1} of the infra red absorption spectrum.